

Wolfgang Herbordt

Sound Capture for Human / Machine Interfaces

Practical Aspects
of Microphone Array Signal Processing

Sound Capture For Human Machine Interfaces Practical Aspects Of Microphone Array Signal Processing

Heinz Deutsch



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Sound Capture for Human / Machine Interfaces Wolfgang Herbordt, 2009-09-02 With a continuously increasing desire for natural and comfortable human machine interaction the acoustic interface of any terminal for multimedia or telecommunication services is challenged to allow seamless and hands free audio communication Sound Capture for Human Machine Interfaces introduces the practical aspects of microphone array signal processing and presents various combinations of beamforming and acoustic echo cancellation *Sound Capture for Human / Machine Interfaces* Wolfgang Herbordt, 2005-03-22 With a continuously increasing desire for natural and comfortable human machine interaction the acoustic interface of any terminal for multimedia or telecommunication services is challenged to allow seamless and hands free audio communication Sound Capture for Human Machine Interfaces introduces the practical aspects of microphone array signal processing and presents various combinations of beamforming and acoustic echo cancellation

Fundamentals of Signal Enhancement and Array Signal Processing Jacob Benesty, Israel Cohen, Jingdong Chen, 2017-09-06 A comprehensive guide to the theory and practice of signal enhancement and array signal processing including matlab codes exercises and instructor and solution manuals Systematically introduces the fundamental principles theory and applications of signal enhancement and array signal processing in an accessible manner Offers an updated and relevant treatment of array signal processing with rigor and concision Features a companion website that includes presentation files with lecture notes homework exercises course projects solution manuals instructor manuals and Matlab codes for the examples in the book [Digital Speech Transmission and Enhancement](#) Peter Vary, Rainer Martin, 2023-11-23 DIGITAL SPEECH TRANSMISSION AND ENHANCEMENT Enables readers to understand the latest developments in speech enhancement transmission due to advances in computational power and device miniaturization The Second Edition of Digital Speech Transmission and Enhancement has been updated throughout to provide all the necessary details on the latest advances in the theory and practice in speech signal processing and its applications including many new research results standards algorithms and developments which have recently appeared and are on their way into state of the art applications Besides mobile communications which constituted the main application domain of the first edition speech enhancement for hearing instruments and man machine interfaces has gained significantly more prominence in the past decade and as such receives greater focus in this updated and expanded second edition Readers can expect to find information and novel methods on Low latency spectral analysis synthesis single channel and dual channel algorithms for noise reduction and dereverberation Multi microphone processing methods which are now widely used in applications such as mobile phones hearing aids and man computer interfaces Algorithms for near end listening enhancement which provide a significantly increased speech intelligibility for users at the noisy receiving side of their mobile phone Fundamentals of speech signal processing estimation and machine learning speech coding error concealment by soft decoding and artificial bandwidth

extension of speech signals Digital Speech Transmission and Enhancement is a single source comprehensive guide to the fundamental issues algorithms standards and trends in speech signal processing and speech communication technology and as such is an invaluable resource for engineers researchers academics and graduate students in the areas of communications electrical engineering and information technology

Modal Array Signal Processing: Principles and Applications of Acoustic Wavefield Decomposition Heinz Teutsch, 2007-01-10 This book deals with the problem of detecting and localizing multiple simultaneously active wideband acoustic sources by applying the notion of wavefield decomposition using circular and spherical microphone arrays A rigorous derivation of modal array signal processing algorithms for unambiguous source detection and localization as well as performance evaluations by means of measurements using an actual real time capable implementation are discussed

Digital Speech Transmission Peter Vary, Rainer Martin, 2006-08-04 The enormous advances in digital signal processing DSP technology have contributed to the wide dissemination and success of speech communication devices be it GSM and UMTS mobile telephones digital hearing aids or human machine interfaces Digital speech transmission techniques play an important role in these applications all the more because high quality speech transmission remains essential in all current and next generation communication networks Enhancement coding and error concealment techniques improve the transmitted speech signal at all stages of the transmission chain from the acoustic front end to the sound reproduction at the receiver Advanced speech processing algorithms help to mitigate a number of physical and technological limitations such as background noise bandwidth restrictions shortage of radio frequencies and transmission errors Digital Speech Transmission provides a single source comprehensive guide to the fundamental issues algorithms standards and trends in speech signal processing and speech communication technology The authors give a solid accessible overview of fundamentals of speech signal processing speech coding including new speech coders for GSM and UMTS error concealment by soft decoding artificial bandwidth extension of speech signals single and multi channel noise reduction acoustic echo cancellation This text is an invaluable resource for engineers researchers academics and graduate students in the areas of communications electrical engineering and information technology

Springer Handbook of Speech Processing Jacob Benesty, M. M. Sondhi, Yiteng Huang, 2007-11-28 This handbook plays a fundamental role in sustainable progress in speech research and development With an accessible format and with accompanying DVD Rom it targets three categories of readers graduate students professors and active researchers in academia and engineers in industry who need to understand or implement some specific algorithms for their speech related products It is a superb source of application oriented authoritative and comprehensive information about these technologies this work combines the established knowledge derived from research in such fast evolving disciplines as Signal Processing and Communications Acoustics Computer Science and Linguistics

Speech and Computer Albert Ali Salah, Alexey Karpov, Rodmunga Potapova, 2019-08-09 This book constitutes the proceedings of the 21st International Conference on Speech and Computer

SPECOM 2019 held in Istanbul Turkey in August 2019 The 57 papers presented were carefully reviewed and selected from 86 submissions The papers present current research in the area of computer speech processing including audio signal processing automatic speech recognition speaker recognition computational paralinguistics speech synthesis sign language and multimodal processing and speech and language resources

Speech and Audio Processing in Adverse

Environments Eberhard Hänsler, Gerhard Schmidt, 2008-07-22 Users of signal processing systems are never satisfied with the system they currently use They are constantly asking for higher quality faster performance more comfort and lower prices Researchers and developers should be appreciative for this attitude It justifies their constant effort for improved systems Better knowledge about biological and physical interrelations coming along with more powerful technologies are their engines on the endless road to perfect systems This book is an impressive image of this process After Acoustic Echo 1 and Noise Control published in 2004 many new results lead to Topics in 2 Acoustic Echo and Noise Control edited in 2006 Today in 2008 even more new findings and systems could be collected in this book Comparing the contributions in both edited volumes progress in knowledge and technology becomes clearly visible Blind methods and multi-input systems replace humble low complexity systems The functionality of new systems is less and less limited by the processing power available under economic constraints The editors have to thank all the authors for their contributions They cooperated readily in our effort to unify the layout of the chapters the terminology and the symbols used It was a pleasure to work with all of them Furthermore it is the editors concern to thank Christoph Baumann and the Springer Publishing Company for the encouragement and help in publishing this book

H-infinity Control for Nonlinear Descriptor Systems He-Sheng Wang, Chee-Fai Yung, Fan-Ren Chang, 2006-01-18 The authors present a study of the H infinity control problem and related topics for descriptor systems described by a set of nonlinear differential algebraic equations They derive necessary and sufficient conditions for the existence of a controller solving the standard nonlinear H infinity control problem considering both state and output feedback One such condition for the output feedback control problem to be solvable is obtained in terms of Hamilton Jacobi inequalities and a weak coupling condition a parameterization of output feedback controllers solving the problem is also provided All of these results are then specialized to the linear case The derivation of state space formulae for all controllers solving the standard H infinity control problem for descriptor systems is proposed Among other important topics covered are balanced realization reduced order controller design and mixed H2 H infinity control H infinity Control for Nonlinear Descriptor Systems provides a comprehensive introduction and easy access to advanced topics

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